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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE.

In Re Application of:

Confirmation No. 5467

Rycharde Jeffery Hawkes, et al.

Group Art Unit: 2121

Serial No.: 10/695,549

Examiner, Stevens, Thomas H.

Filed: October 28, 2003

Docket No. 30018432-2

For: Simulation at Two Different Levels of Complexity

Proposed Amendments

Examiner Stevens:

Pursuant to our telephone conversation, enclosed is a claim listing with amendments correcting various informalities.

Regards,

/Charles W. Griggers/

Charles W. Griggers Reg. No. 47,283

LISTING OF CLAIMS

The following is a copy of Applicants' claims that identifies language being added with underlining ("____") and language being deleted with strikethrough ("____"), as is applicable:

 (Currently Amended) A method of simulating a creature for use in two different complexities of simulation, the method comprising:

utilizing a model of the creature that comprises at least two portions:

- a first portion which contains functions for use in both of said <u>two</u> different complexities of simulation; and
 - a second portion comprising two alternative versions:
 - a first version for use in one of said <u>two</u> different complexities of simulation, wherein the first version utilizes a neural network; and
 - a second version for use in the other of said different complexities of simulation,

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wherein said first portion comprises a behavior selection mechanism arranged to select the behavior of said creature and said second portion is arranged to execute the selected behavior.

- (Canceled)
- 3. (Currently Amended) A method as claimed in claim 1, wherein said behavior selection mechanism is arranged to select the behavior based upon at least one of:

the <u>a</u> current behavioral state;

one or more internal state variables of the creature;

the <u>an</u> environment surrounding the creature; and

one or more sensory inputs to said creature.

4. (Previously Presented) A method as claimed in claim 1, wherein said behavior selection mechanism consists of a set of mutually exclusive behavioral states.

approximate the functionality of the first version. version is for use in the (Currently Amended) A method as claimed in claim 1, wherein the a less complex of the simulations, and is arranged second

6-7. (Canceled)

- version utilizes version utilizes a three dimensional physical simulation of an animat, and the second (Previously Presented) A method as claimed in claim 1, wherein the first Ø parameterized model of the animat to approximate movement
- creatures, the method comprising utilizing at least two modes of simulation: (Currently Amended) A method of simulating activities <u>오</u> plurality ď

a first mode arranged to simulate the activities of all of said creatures; and

model of a second mode arranged to simulate an activity of at least one of said creatures a creature simulated in both modes of simulation comprises at least two detailed computational level of complexity than said first mode, wherein

second modes of simulation; and a first portion which contains functions arranged for use in both of said first

selected for closer inspection of the at least one creature being simulated said first mode of simulation, and a second version for use in the second mode when second portion comprising two alternative versions, a first version for use 5

of complexity, the method comprising: (Currently Amended) A method of simulating a process at two different levels

utilizing a model that comprises at least two portions:

complexities of simulation; and a first portion which contains functions for use in both of said two different

a second portion comprising two alternative versions:

- process being simulated; and complexities of simulation when selected for closer inspection of the a first version for use in one of said two different levels of
- functionality of the first version. complexities of simulation, wherein the second version is for use in the a less complex level of the simulations, and is arranged to approximate the second version for use in the other of said different levels of
- alternative versions of the second portion to use in simulating the process or more (Original) A method as claimed in claim 10, further comprising evaluating one conditions to determine a result of a rule for selecting which of the two

12. (Canceled)

neural network 13. (Original) A method as claimed in claim 10, wherein the first version utilizes a

- 14. (Currently Amended) A simulator device arranged to simulate a creature in two different levels of complexities of simulation, the <u>simulator</u> device being arranged to utilise a model of the creature that comprises at least two portions:
- a first portion which contains functions used in both of said <u>two</u> different levels of complexities of simulation; and
- a second portion comprising two alternative versions, a first version used in one of said two different levels of complexities of simulation when selected for closer inspection of the process being simulated, and second version used in the other of said different levels of complexities of simulation; wherein the second version is for use in the a less complex of the simulations, and is arranged to approximate the functionality of the first version.

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